IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Bernhard FREI

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CONFIRMATION NO.: 3582

(Reg. No. 27,841)

FILED:

October 20, 2005

INVENTION:

METHOD AND DEVICE FOR THE REAL TIME CONTROL OF PRINT IMAGES

Patents,

Members

206

MAIL STOP PCT

Commissioner for Patents, P. O. Box 1450 Alexandria, Virginia 22313-1450

SUBMITTAL OF ENGLISH TRANSLATION OF INTERNATIONAL PRE **EXAMINATION REPORT**

SIR:

Enclosed herewith is the English translation of the International Preliminary Examination Report for the above-identified application.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to

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DATE: December 18, 2006

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PATENT COOPERATION TREATY

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NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rule 72.2)

To: SCHAUMBURG, KALEINGEGANGEN
Postfach 86 07 48 **ALLEMAGNE** 29. Nov. 2006

Date of mailing (day/month/year) 23 November 2006 (23.11.2006)

Applicant's or agent's file reference

2002ODT1202P

International application No. PCT/EP2003/014630 IMPORTANT NOTIFICATION

International filing date (day/month/year) 19 December 2003 (19.12.2003)

Applicant

OCÉ DOCUMENT TECHNOLOGIES GMBH et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

None

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

EP, JP, US

Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Form PCT/IB/338 (July 1996)

PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A	
Applicant's or agent's file reference 2002ODT1202P	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month/year) Priority date (day/month/year)
PCT/EP2003/014630	19 December 2003 (19.12.2003) 20 December 2002 (20.12.2002)
International Patent Classification (IPC) or na B41F 33/00	ational classification and IPC
Applicant OCÉ	DOCUMENT TECHNOLOGIES GMBH
This international preliminary examinand is transmitted to the applicant according to the acco	nation report has been prepared by this International Preliminary Examining Authority cording to Article 36.
2. This REPORT consists of a total of	5 sheets, including this cover sheet.
and the basis to	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been this report and/or sheets containing rectifications made before this Authority (see Rule Administrative Instructions under the PCT).
These annexes consist of a tota	al of sheets.
 This report contains indications relating 	ng to the following items:
I Basis of the report	
II Priority	
III Non-establishment of	opinion with regard to novelty, inventive step and industrial applicability
IV Lack of unity of inven	
v Reasoned statement un citations and explanati	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; ions supporting such statement
VI Certain documents cite)
VII Certain defects in the	international application
	on the international application
Date of submission of the demand	Date of completion of this report
15 July 2004 (15.07.200	
Name and mailing address of the IPEA/EP	Authorized officer .
Facsimile No.	Telephone No.

Translation

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP2003/014630

I. Basi	s of the r	eport					
1. Wit		to the elements of the international application:*					
	the inte	emational application as originally filed					
\boxtimes	the des	scription:					
	pages	1, 4-16	, as originally filed				
	pages		, filed with the demand				
	pages	, filed with the letter of	12 November 2004 (12.11.2004)				
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	pages		, as originally filed				
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	pages	, filed with the letter of	12.11.2004 // 25.11.2004				
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	pages		, filed with the demand				
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	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/						
3. With	or 55.3 regard minary ex	to any nucleotide and/or amino acid sequence disclosed in the internaxamination was carried out on the basis of the sequence listing:	itional application, the international				
	contained in the international application in written form.						
		ogether with the international application in computer readable form.					
		ed subsequently to this Authority in written form.					
		ed subsequently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	The state	atement that the information recorded in computer readable form is identical urnished.	to the written sequence listing has				
4.	The am	nendments have resulted in the cancellation of:					
		the description, pages					
	f - 1	the claims, Nos.					
	1 1	the drawings, sheets/fig					
5.	This rep	port has been established as if (some of) the amendments had not been made, si the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	nce they have been considered to go				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16							
ana /	0.17).	ent sheet containing such amendments must be referred to under item 1 and anne.					
THEY I	-piuceiile	on sheet community such amenuments must be rejerred to under item. I and anne	xea 10 this report.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/14630

Reasoned statement under Article 3 citations and explanations supporti		, inventive step or industrial ap	plicability;
Statement			
Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-13	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO

Citations and explanations

Reference is made to the following documents:

D1: DE-A-199 40 879 (INNOMESS ELEKTRONIK GMBH)

8 March 2001 (2001-03-08)

D2: US-A-6 024 018 (NAGLER MIRIAM ET AL)

15 February 2000 (2000-02-15).

Document D1 is considered to be the closest prior art for the subject matter of claim 1. D1 discloses (the references in parentheses are to D1):

a method for monitoring, more particularly for real-time monitoring, of print images, comprising the following steps:

- electrooptical recording and digitization of an actual image into individual pixels (column 3, lines 20 to 38);
- use of a reference image which is segmented into a plurality of segments, a reference value for colour and structure being assigned to each segment (column 3, lines 39 to 45);

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- comparison of the colour attributes of the pixels of the actual image with the corresponding reference values of the reference image, a corresponding pixel in a result image being labelled as an error when a deviation from a predetermined threshold value occurs (column 3, lines 41 to 47; column 2, lines 45 to 60).

The subject matter of claim 1 differs therefore from the known method in that

- (a) only regions with identical colour attributes are used for the comparison of print and reference images;
- (b) regions with identical colour attributes are defined by means of a segmentation algorithm, whereas in the method according to D1 the limits of the regions are fixed arbitrarily;
- (c) the edge regions of the segments are not taken into account in the comparison.

In the method according to D1, on the other hand, meaningful assignment of a colour reference value to a segment is not always possible because of the arbitrary decomposition of the image into segments.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of improving the selection of image regions for the comparison between print and reference images.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

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None of the documents cited in the search report discloses features which, in combination with the method disclosed in D1, would result in a method as per claim 1.

Although document D2 describes a method for monitoring print images in which the entire image is decomposed into zones, each of which is produced by a printing unit, D2 uses within these regions a method for selecting comparison regions which differs from that of the present invention in that, according to D2, the method is also applied to the edge regions of the segments.

Consequently, a combination of D1 and D2 does not lead to the method described in claim 1 either.

Claim 11 relates to a device analogous to the method as per claim 1 and therefore likewise meets the PCT requirements for novelty and inventive step.

Claims 2-10 and 12 and 13 are dependent on claims 1 and 11, respectively, and therefore likewise meet the PCT requirements for novelty and inventive step.



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